

**ABSTRACT**

Devices and methods are disclosed for delivering a viscous bone cement material to a patient. A device includes a container containing a viscous bone cement and having an exit port. An actuator having an actuator vessel including a incompressible fluid is hydraulically coupled to the container. The container can be placed adjacent to a desired injection site in a fluoroscopic imaging field while the actuator can be actuated from a location outside of the fluoroscopic imaging field to hydraulically drive a flow of viscous bone cement through the exit port to the desired injection site.

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